

# PATENT COOPERATION TREATY

# PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>BP111069</b>	<b>FOR FURTHER ACTION</b> <small>see Form PCT/ISA/220 as well as, where applicable, item 5 below.</small>	
International application No. <b>PCT/FI2005/000054</b>	International filing date (day/month/year) <b>28/01/2005</b>	(Earliest) Priority Date (day/month/year) <b>29/01/2004</b>
Applicant  <b>ABB OY</b>		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

a. the figure of the **drawings** to be published with the abstract is Figure No. 4

☐ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☒ as selected by this Authority, because this figure better characterizes the invention.

b. ☐ none of the figures is to be published with the abstract.

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/FI2005/000054

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 H02H5/08 G01N33/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H02H G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 37 02 970 A1 (GAUS, HARRY, DR; GAUS, HARRY, DR., 6140 BENSHEIM, DE) 18 August 1988 (1988-08-18)  page 3, line 5 - page 4, line 39; figure 1	1-5, 10-15, 18, 22, 23, 26-30
X	US 4 562 723 A (HUBNER ET AL) 7 January 1986 (1986-01-07)  column 7, line 14 - column 8, line 57; figures 1-7	1, 6-10, 16-20, 24, 25, 30
A	US 5 668 304 A (KELLETER ET AL) 16 September 1997 (1997-09-16) column 5, line 18 - column 6, line 19; figures 3, 4	11-14, 26, 27
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*G\* document member of the same patent family

Date of the actual completion of the international search

20 July 2005

Date of mailing of the international search report

28/07/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel: (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Colombo, A

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/FI2005/000054

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>DE 30 12 076 A1 (RUHRKOHLE AG)  8 October 1981 (1981-10-08)  page 8, paragraph 3 - page 13, paragraph  2; figure 1</p> <p>-----</p>	1,10

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No  
PCT/FI2005/000054

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
DE 3702970	A1	18-08-1988	DE 8701530 U1 WO 8805974 A1 EP 0301055 A1 JP 1502714 T	02-07-1987 11-08-1988 01-02-1989 14-09-1989
US 4562723	A	07-01-1986	NONE	
US 5668304	A	16-09-1997	DE 4401570 A1 DE 59409980 D1 EP 0665428 A2 ES 2164681 T3 PT 665428 T	27-07-1995 10-01-2002 02-08-1995 01-03-2002 31-05-2002
DE 3012076	A1	08-10-1981	NONE	